

CLAIMS

1. A glass having an alkali-metal-ion concentration gradient from its surface over an exchange depth of at least 100 μm , a surface stress of at least 200 MPa and a strain point in the core of at least 550°C.
2. The glass as claimed in the preceding claim, characterized in that it has an interdiffusion coefficient at 400°C of the alkali metal ions exchanged of at most $9 \times 10^{-17} \text{ m}^2 \cdot \text{s}^{-1}$.
3. The glass as claimed in one of the preceding claims, characterized in that the ratio of the interdiffusion coefficient at 490°C of the exchanged alkali metal ions to the interdiffusion coefficient at 400°C of the exchanged alkali metal ions is at least 20.
4. The glass as claimed in one of the preceding claims, characterized in that the interdiffusion coefficient at 490°C of the exchanged alkali metal ions is less than $2 \times 10^{-15} \text{ m}^2 \cdot \text{s}^{-1}$.
5. The glass as claimed in one of the preceding claims, characterized in that the strain point in the core is at least 570°C.
6. The glass as claimed in one of the preceding claims, characterized in that the exchange ions are chosen from Na^+ , Li^+ , K^+ .
7. The glass as claimed in one of the preceding claims, characterized in that the depth of alkali metal ion exchange is at most 300 μm .
8. The glass as claimed in one of the preceding claims, characterized in that it meets the EN 60335-2-6 standard.
9. A pane comprising the glass of one of the preceding claims.
10. The pane as claimed in the preceding claim, characterized in that its thickness ranges from 2 to 7 mm.
11. The pane as claimed in the preceding claim, characterized in that its thickness ranges from 2.8 to 5 mm.
12. A door comprising the glass or the pane of one of the preceding claims.
13. The door as claimed in the preceding claim, comprising hinges directly incorporated into said pane.
14. The door as claimed in one of the preceding door claims, characterized in that the border of the pane is protected by a seal.

15. A cooker or fire screen or flue insert, comprising the glass or the pane or the door of one of the preceding claims.
16. An oven comprising a door of one of the preceding door claims.
17. The oven as claimed in the preceding claim, characterized in that it is of the pyrolytic type.
18. A stove comprising a door of one of the preceding door claims.
19. The use of a pane as claimed in one of the preceding pane claims for separating two gaseous atmospheres at different temperatures, the first being at a temperature ranging from 300 to 530°C and the second being at a temperature at least 50°C below the first.
20. The use as claimed in the preceding claim, characterized in that the second gaseous atmosphere is at a temperature at least 100°C below the first.
21. The use as claimed in the preceding claim, characterized in that the second atmosphere is at room temperature.